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Water Supply Outlook For Wyoming



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

STATE ENGINEER of WYOMING

AS OF
MAY 1, 1980

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: THE SNOTEL PROJECT CENTRAL COMPUTER FACILITIES IN PORTLAND, OREGON. THE TERMINAL, PRINTER, COMPUTER AND TAPE DRIVES HAVE NOT COMPLETELY REPLACED THE SNOW SAMPLING TUBES SEEN IN THE FOREGROUND.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR WYOMING

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by
NORMAN A. BERG
ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C



Released by
FRANK S. DICKSON, JR.
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
CASPER, WYOMING

In Cooperation with
GEORGE L. CHRISTOPULOS
STATE ENGINEER
STATE OF WYOMING



Report prepared by
JON G. WERNER, Snow Survey Supervisor
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SOIL CONSERVATION SERVICE
P.O. BOX 2440
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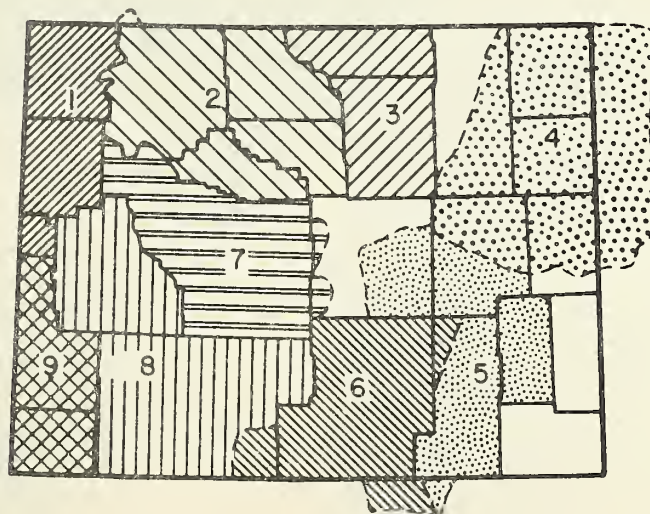
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- Area 2 Bighorn Basin
- Area 3 Powder and Tongue River Watersheds
- Area 4 Belle Fourche and Cheyenne River Watersheds
- Area 5 Lower North Platte River Watershed
- Area 6 Upper North Platte and Little Snake River Basins
- Area 7 Wind River Basin and Sweetwater River Watershed
- Area 8 Upper Green River Basin
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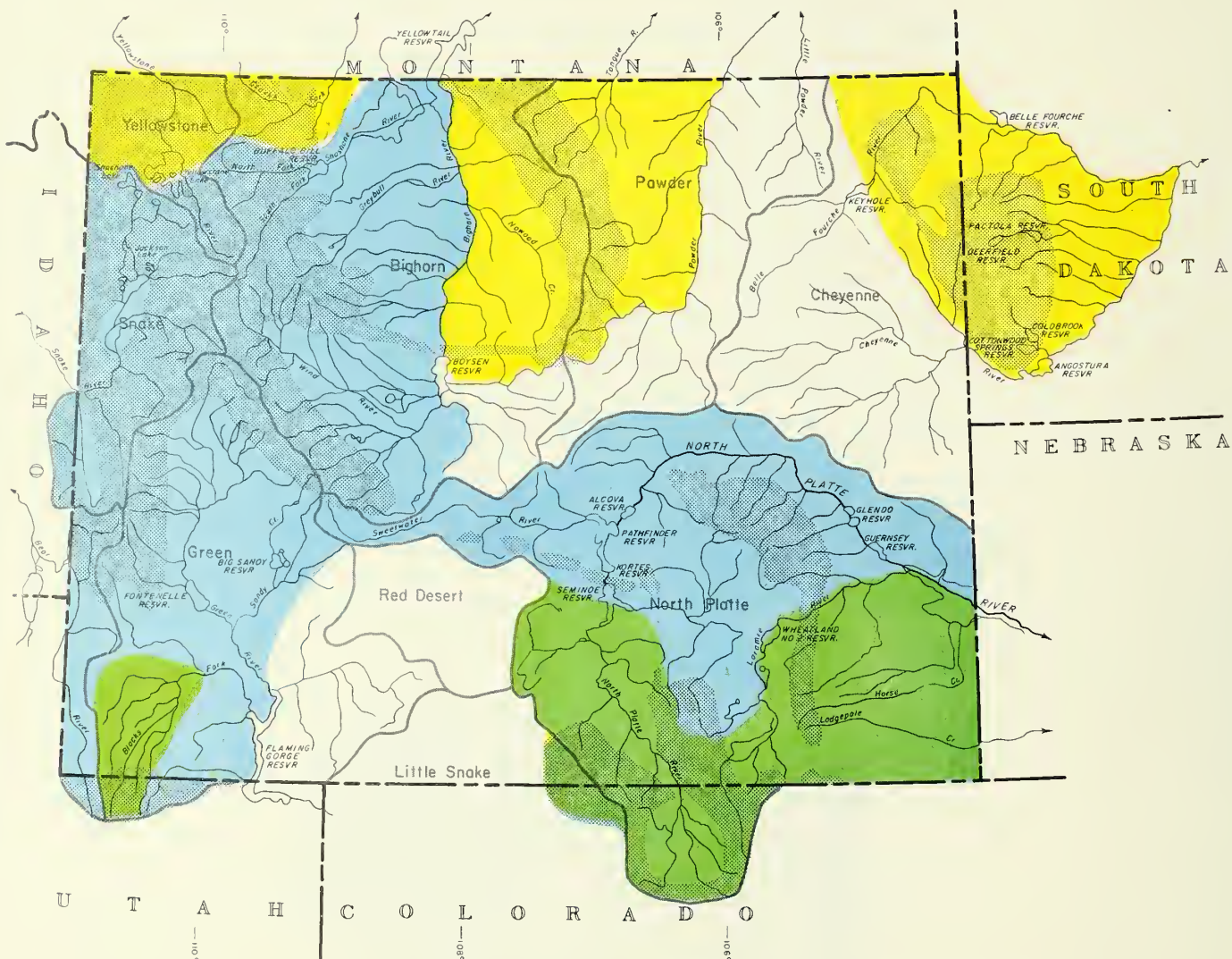


WATERSHED AREA LOCATIONS

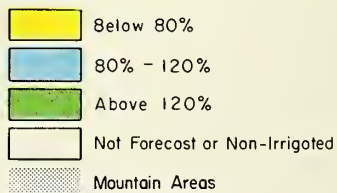
PROSPECTIVE WATER SUPPLIES FOR WYOMING SPRING AND SUMMER PERIOD

May 1, 1980

50 0 50 MILES
SCALE 1 : 4,250,000



FORECAST STREAM FLOW
In Percent of 1963-77, 15 Year Average



WYOMING SUMMARY

as of
MAY 1, 1980

* * * * *
* *
* *Good to excellent summer stream-* *
* *flows are expected in southern* *
* *Wyoming drainages. Other areas* *
* *of Wyoming will have generally* *
* *below normal summer runoff.* *
* *Lowest flows are expected in the* *
* *extreme northeast and northwest.* *
* *
* * * * *

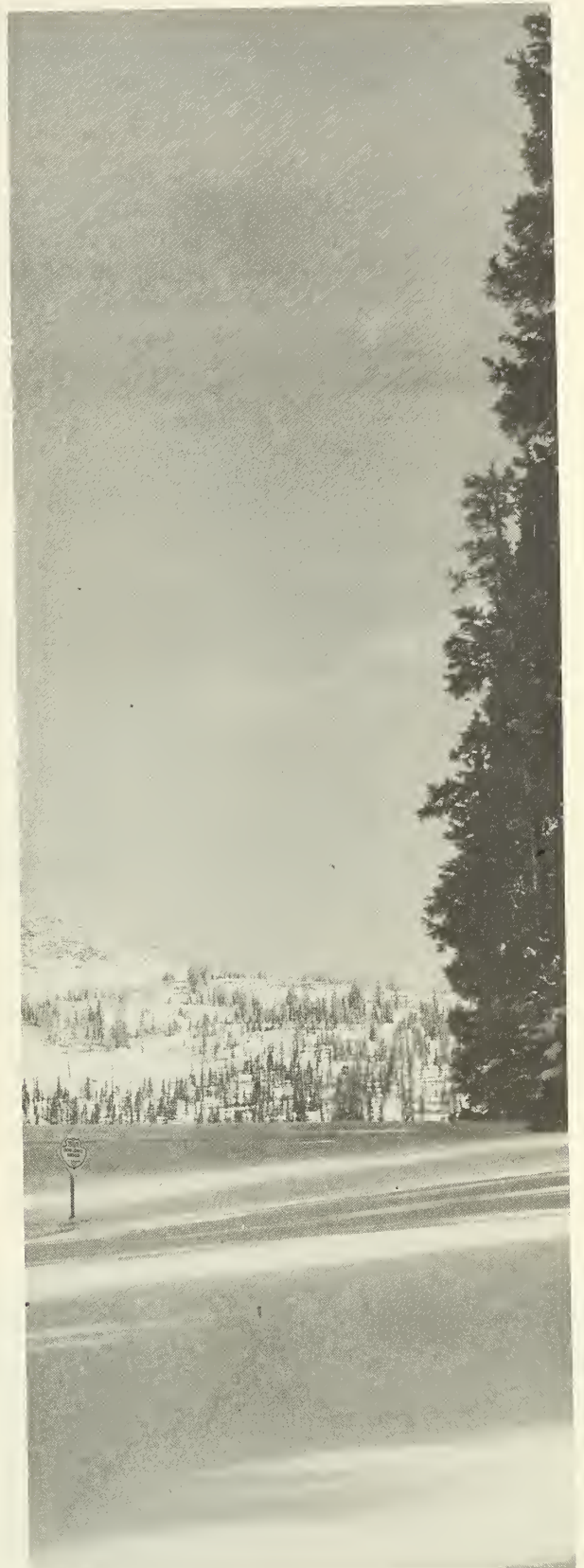
SNOWPACK

Low and medium elevation snowpacks have receded rapidly during unseasonably high temperatures and low snowfall of latter April. A state-wide decrease of 24 percent compared to normal is reported. Snowpack in the Laramie River basin is presently 19 percent above normal, and the North Platte is still holding up well at 6 percent above normal. Snowpacks across the remainder of Wyoming range from 18 percent above normal on the Black's Fork in southwestern Wyoming to a reported 8 percent of normal in the Black Hills.

PRECIPITATION

Low elevation precipitation for April was well below normal. Most stations received 25 to 50 percent of normal with a dozen or more stations reporting less than 25 percent of normal.

The dry April lowered seasonal totals over the northern half of the state to 60 to 80 percent of normal. Most stations in the southwestern quarter of the state fell considerably, but remained slightly above normal for the season.



...continued next page

Southeast Wyoming received the first subnormal month of precipitation since October. Seasonal totals are still averaging 125 to 250 percent of normal.

STREAMFLOW

Early snowmelt from high temperatures and low April precipitation is swelling many of Wyoming's smaller drainages to an early peak flow. The forecasted 26 percent and 24 percent above normal flows for the North Platte and Laramie Rivers, respectively, still lead the state in promising excellent summer flows. The Black's Fork in southwest Wyoming is highest at 33 percent above normal.

Forecasts in the Green River basin remain at the April 1 level while most other prospects for summer flows have diminished compared to April 1 predictions. The lowest volumes are expected on the east slope of the Bighorns and the Black Hills area.

RESERVOIR STORAGE

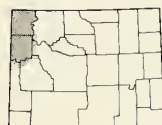
Reservoir storage is good at 9 percent above the usual May 1 volume in Wyoming's 13 largest reservoirs. These reservoir systems are presently storing 65 percent of their usable capacity.

Forecasts prepared for this bulletin represent cooperative efforts of the Soil Conservation Service and the National Weather Service in an effort to provide the best possible service to water users and managers.

WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE SNAKE, MADISON AND UPPER YELLOWSTONE RIVER WATERSHEDS IN WYOMING

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE
WATER RESOURCES DIVISION

MAY 1, 1980



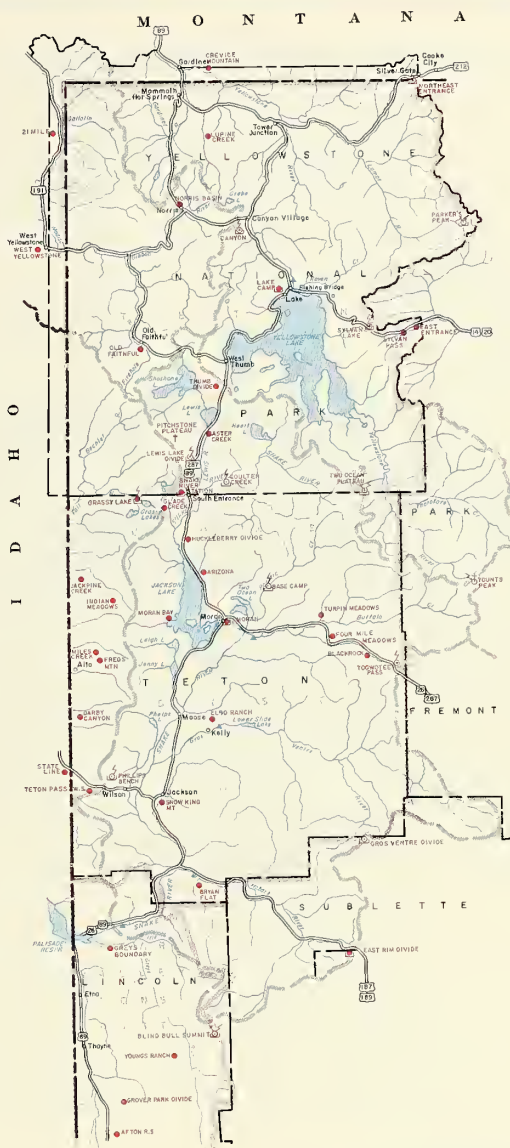
LOCATION MAP



LEGEND

- SNOTEL
- Snow Course
- Snow Sensor
- Aerial Marker (AM)
- Storage/Precipitation Gauge (IP)
- Stream Gaging Station
- Drainage
- Highway
- Conservation District Boundary
- Watershed Boundary

10 0 10 20 MILES
SCALE 1:1,415,000



YOUR WATER SUPPLY

FORECASTED SUMMER FLOWS HAVE BEEN TRIMMED SOMEWHAT BY LESS THAN AVERAGE APRIL SNOWFALLS. FLOWS EXPECTED RANGE FROM 16% BELOW NORMAL AT PALISADES INFLOW TO 26% BELOW NORMAL ON THE YELLOWSTONE. LOW AND MEDIAN ELEVATION SNOWPACKS HAVE RECEDED RAPIDLY WITH HIGH LATE APRIL TEMPERATURES. RESERVOIR STORAGE IS 3% BELOW AND 41% ABOVE NORMAL AT JACKSON LAKE AND PALISADES RESERVOIR, RESPECTIVELY.

SNAKE, MADISON AND UPPER YELLOWSTONE RIVER WATERSHEDS

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year**	Average †
Yellowstone River at Yellowstone Lake Outlet	640	74	Apr-Sept	636	860
Snake River near Moran (1)	750	83	Apr-Sept	751	903
Snake River above Palisades near Alpine (1)	2285	83	Apr-Sept	2272	2755
Snake River at Heise (2)	3100	81	Apr-Sept	3690	4247
Pacific Creek at Moran	150	82	Apr-Sept	-	182*
Greys River above Palisades	330	82	Apr-Sept	323	403
Salt River above Palisades near Etna	320	79	Apr-Sept	280	405
Palisades Reservoir Inflow (1)	3250	84	Apr-Sept	3174	3863
Swift Creek near Afton	40	85	May-Sept	38	47

(1) Observed flow plus change in storage in Jackson Lake.

(2) Observed flow plus change in storage in Jackson Lake and Palisades Reservoir.

** Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

* Average contains less than 15 years

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Snake above Jackson	2	72	73
Buffalo Creek	1	101	87
Gros Ventre River	3	83	72
Hoback River	6	66	65
Greys River	2	95	69
Salt River	4	66	52

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

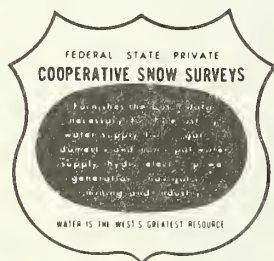
RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Grassy Lake	15.1	12.3	13.0	11.1
Jackson Lake	624.4	553.4	487.9	572.3
Palisades	1200.0	941.4	710.1	666.3

+ 1963-1977 period.

UNITED STATES DEPARTMENT OF AGRICULTURE
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FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE BIGHORN BASIN IN WYOMING

MAY 1, 1980



YOUR WATER SUPPLY

HIGH TEMPERATURES AND LESS THAN NORMAL SNOWFALL IN APRIL HAVE CAUSED SNOWPACKS TO BEGIN MELTING EARLIER AND FASTER THAN USUAL. SOME SNOWPACKS HAVE LOST 50% COMPARED TO CONDITIONS ONE MONTH AGO. VOLUME FORECASTS ON THE BASIN'S STREAMS FOR THIS COMING SUMMER RANGE FROM A LOW OF 40% BELOW AVERAGE ON THE NOWOOD TO 1% ABOVE AVERAGE ON THE WIND RIVER AT BOYSEN RESERVOIR. RESERVOIR STORAGE IS WELL ABOVE NORMAL.

BIGHORN BASIN

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
Wind River below Boysen (1)	1205	101	Apr-Sept	903	1193
Tensleep Creek near Tensleep	70	80	Apr-Sept	-	88
Medicine Lodge Creek near Hyattville	18.5	80	Apr-Sept	-	23
Shell Creek near Shell	55	70	Apr-Sept	78	79
Greybull River at Meeteetse	200	88	Apr-Sept	153	226
Shoshone River below Buffalo Bill Dam (2)	790	91	Apr-Sept	654	864
Clarks Fork near Belfry	490	76	Apr-Sept	-	644
South Fork Shoshone near Valley	230	81	Apr-Sept	201	284
Nowood near Tensleep	42	60	May-Sept	-	71

(1) Observed flow plus change in storage in Bull Lake, Pilot Butte and Boysen Reservoirs; plus diversion to Wyoming Canal.

(2) Observed flow plus change in storage in Buffalo Bill Reservoir and diversion to Heart Mountain Canal.

** Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Clarks Fork	5	66	64
Shoshone	4	46	28
Nowood	5	42	30
Shell	4	63	46

SNOW

DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	THIS YEAR			PAST REC.	
		Snow Depth (in.)	Water Cont (in.)	Water Content (inches)	Last Yr.	Ave†
Bald Mountain	5/02	42	15.5	22.3	31.1	
Bear Trap Aerial	5/03	3	0.9	8.0	-	
Bone Spring Divide	5/02	40	13.3	16.4	24.1	
Carter Mountain	4/28	17	6.1	5.6	7.8	
Cooke Station	5/03	34	14.4	23.2	22.7	
East Entrance	5/01	0	0.0	0.0	4.0	
Fisher Creek	5/02	73	33.0	40.7	45.1	
Five Springs Falls	4/30	2	0.5	2.9	8.3	
Marquette Creek	4/28	22	9.2	5.8	-	
Medicine Lodge Lakes	5/03	19	6.3	13.3	13.9	
Middle Powder	4/29	23	7.2	8.2	16.8	
Northeast Entrance	5/03	1	0.5	8.0	8.5	
Onion Gulch	5/03	5	1.5	7.3	11.0	
Owl Creek	5/03	0	0.0	7.8	7.8	
Powder River Pass	5/03	15	4.9	11.4	14.4	
Ranger Creek	5/03	0	0.0	7.2	10.5	
Shell Creek	5/02	33	10.0	16.0	18.2	
Sylvan Pass	5/01	5	2.2	5.4	11.0	
Timber Creek	4/29	0	0.0	4.9	5.0	
Tyrell Ranger Station	5/03	0	0.0	6.9	10.2	
White Mill	5/02	53	23.0	30.7	31.9	
Wolverine	4/29	17	6.8	14.8	12.3	

+ 1963-1977 period

RESERVOIR STORAGE (Thousand Ac. Ft.)

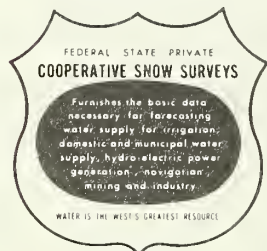
END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Boysen	549.9	271.5	253.8	250.1
Buffalo Bill	373.1	182.6	142.7	133.2
Bighorn	1356.0	779.1	924.8	585.8
Upper Sunshine	53.0	N.R.	47.4	-
Lower Sunshine	58.9	N.R.	27.2	-

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FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE POWDER AND TONGUE WATERSHEDS IN WYOMING

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE
BULLETIN 10-70-10



YOUR WATER SUPPLY

SNOWPACK BEGAN DIMINISHING IN THE CLEAR SKIES AND HIGH TEMPERATURES OF LATTER APRIL AT A RAPID RATE LEAVING LESS THAN ONE-HALF REMAINING ON MAY 1. MOST SPRING AND SUMMER STREAMFLOWS ARE EXPECTED TO BE 30 TO 40 PERCENT LESS THAN AVERAGE, WITH EARLIER THAN USUAL PEAKS.

POWDER AND TONGUE RIVER WATERSHEDS

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
Tongue River near Dayton	85	66	Apr-Sept	78	129
Middle Fork Powder River near Barnum	13.2	60	Apr-Sept	11.3	22
North Fork Powder River near Hazelton	7.4	69	Apr-Sept	9.3	10.7
Clear Creek near Buffalo	34	87	Apr-Sept	44	39
Rock Creek near Buffalo	17	65	Apr-Sept	17	26
Piney Creek at Kearny	34	60	Apr-Sept	34	57

** Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.
 * Less than 15 years of record.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Tongue River	5	70	46
Goose Creek	3	64	47
Clear Creek	3	58	47
Crazy Woman Creek	3	26	21
Powder River	5	57	40

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont (In.)	Water Content (inches) Last Yr.	Ave.†
Bald Mountain	5/02	42	15.5	22.3	31.1
Big Goose	5/02	15	4.0	6.9	11.1
Bone Spring Divide	5/02	40	13.3	16.4	24.1
Burgess Ranger Station	5/02	12	3.4	7.3	11.2
Bear Trap Aerial	5/03	3	0.9	8.0	-
Cloud Peak Aerial	5/03	33	10.8	9.9	-
Dome Lake	5/02	35	6.3	9.0	13.6
Five Springs Falls	4/30	2	0.5	2.9	8.3
Geneva Pass Aerial	5/02	36	10.8	13.3	-
Middle Powder	4/29	23	7.2	8.2	16.8
Muddy Creek Guard Station	5/03	0	0.0	5.6	4.6
North Tongue	5/02	24	7.5	12.7	16.6
Onion Gulch	5/03	5	1.5	7.3	11.0
Powder River Pass	5/03	15	4.9	11.4	14.4
Sawmill Divide	5/02	34	9.6	13.2	-
Shell Creek	5/02	33	10.0	16.0	18.2
Soldier Park	5/03	18	5.7	6.6	8.2
Sour Dough	5/03	13	3.9	7.0	8.2
Steamboat Point	5/02	17	5.5	8.2	12.9
Sucker Creek	5/02	22	6.5	9.1	17.8
Woodrock Guard Station	5/02	24	8.0	10.1	14.7

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
- No Reservoir Data -				

A - Aerial stadia marker. Water content estimated. + 1963-1977 period

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WATER SUPPLY OUTLOOK

FOR THE CONSERVATION DISTRICTS IN THE BELLE FOURCHE AND CHEYENNE RIVER WATERSHEDS IN WYOMING AND SOUTH DAKOTA

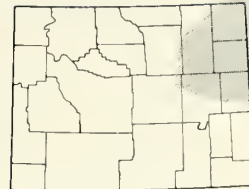
U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE
STATE OF WYOMING

LEGEND

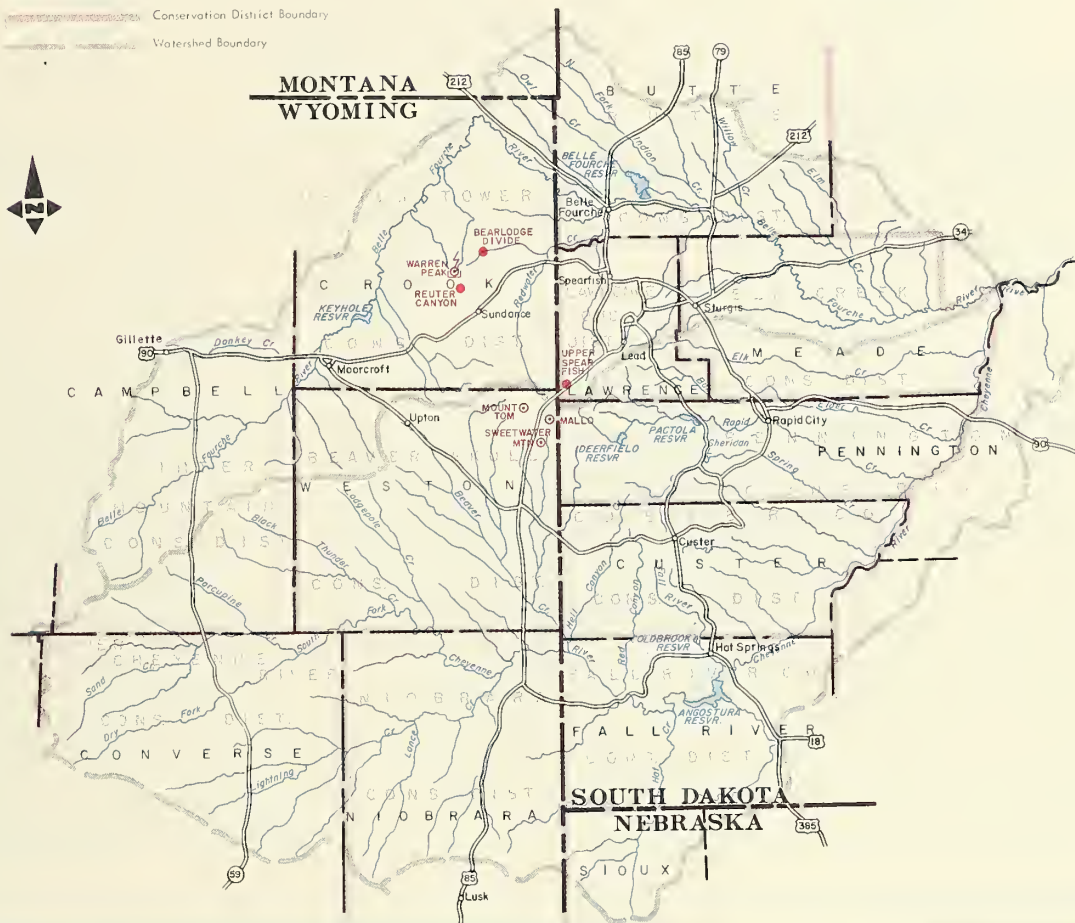
- Snow Course
- Snow Sensor
- † Aerial Marker (A)
- ⌈ Storage Precipitation Gage (P)
- ▲ Stream Gaging Station
- Drainage
- == Highway
- - - Conservation District Boundary
- - - Watershed Boundary

MAY 1, 1980

10 0 10 20 30 40 MILES
SCALE 1:1,000,000



LOCATION MAP



YOUR WATER SUPPLY

SNOWPACKS HAVE DISAPPEARED FROM THIS REGION. STREAM-FLOWS WILL BE MUCH BELOW NORMAL WITHOUT ABOVE AVERAGE SPRING RAINFALL. RESERVOIRS IN THIS AREA, HOWEVER, ARE CURRENTLY STORING 93% OF THEIR USUAL VOLUME.

BELLE FOURCHE AND CHEYENNE RIVER WATERSHEDS

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		PAST RECORD	
	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average	PERIOD	Last Year Average †
- No forecasts for this area -				

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Belle Fourche	2	0	8

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Water Content (inches) Last Yr.	Ave. †
Bearlodge Divide	5/01	0	0.0	0.0	1.1
Reuter Canyon	5/02	0	0.0	0.0	6.9
Warren Peak	5/01	5	1.2	0.0	8.8

RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Keyhole	190.4	139.4	161.9	129.3
Belle Fourche	185.2	120.4	184.4	157.2
Angostura	86.2	84.7	85.1	77.0
Deerfield	15.1	15.1	15.1	14.7
Pactola	55.0	54.7	54.4	52.2
Shadehill	81.5	47.2	84.2	66.8

+ 1963-1977 period

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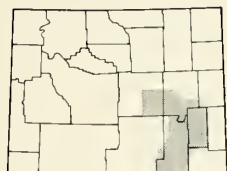
WATER SUPPLY OUTLOOK

FOR THE CONSERVATION DISTRICTS IN THE

LOWER NORTH PLATTE RIVER WATERSHED IN WYOMING

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

MAY 1, 1980

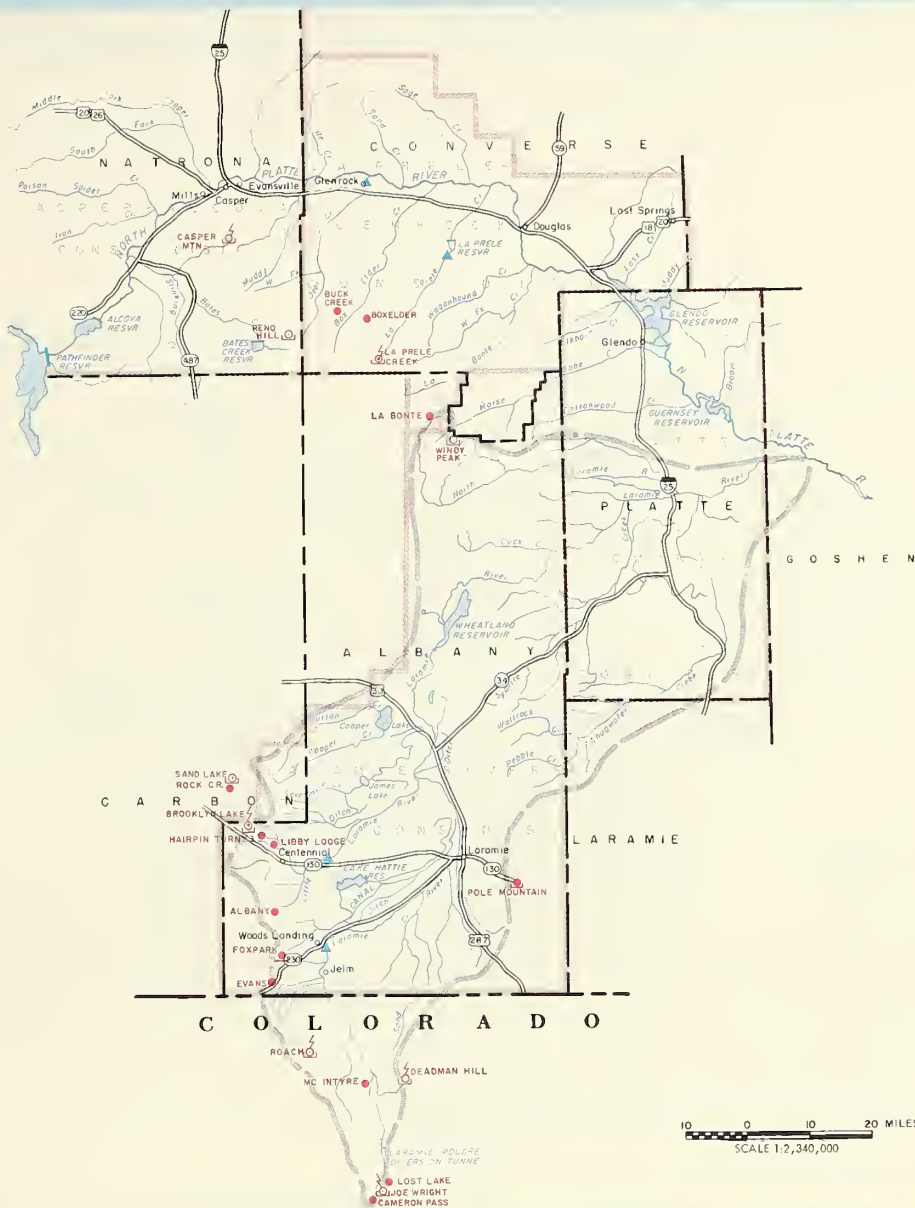


LOCATION MAP



LEGEND

- SNOTEL
- Snow Course
- Snow Sensor
- Storage Precipitation Gage (P)
- Stream Gaging Station
- Drainage
- Highway
- Conservation District Boundary
- Watershed Boundary



10 0 10 20 MILES
SCALE 1:2,340,000

YOUR WATER SUPPLY

STREAMFLOW FORECASTS REMAIN HIGH WITH 30% ABOVE NORMAL AT SINCLAIR. SNOWPACKS REMAIN NEAR NORMAL IN SPITE OF EARLY MELTING. RESERVOIR STORAGE IS ONE-THIRD ABOVE NORMAL.

LOWER NORTH PLATTE RIVER WATERSHED

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
BASIN, STREAM and/or FORECAST POINT					
North Platte River near Sinclair	884	130	Apr-Sept	853	670
Deer Creek at Glenrock	50	100	Mar-July	13.7	50
LaPrele Creek near Douglas (Ab. Reservoir)	30	100	Apr-July	8.8	30
Laramie River & Pioneer Canal near Woods (1)	155	124	Apr-Sept	160	125
Little Laramie River near Filmore	70	113	Apr-Sept	94	62

(1) Observed flow plus transbasin diversions from North Platte River Basin to Cache La Poudre River Basin in Colorado.
 ** Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Upper Laramie	9	99	119
Little Laramie	4	80	108
Laramie River	14	92	114
North Platte above Laramie River	23	95	104
Deer & LaPrele Creeks	4	118	80
North Platte in Wyo.	29	94	107

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Seminole	1017.3	408.2	384.1	383.8
Pathfinder	1015.9	898.8	765.3	587.7
Alcova	30.7	27.0	25.1	24.9
Glendo	783.7	517.1	481.9	465.9
Guernsey	45.2	34.8	32.4	34.5
Wheatland #2 (E)	98.9	82.2	67.0	55.9
PROJECT WATER OWNERSHIP				
North Platte Project	1016.1	959.5	910.1	-
Kendrick Project	1201.6	835.6	669.6	-
Glendo Project Users	454.3	132.1	157.6	-

(E) Estimated May 1 reading

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SNOW

DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	THIS YEAR		PAST REC.	
		Snow Depth (In.)	Water Cont (In.)	Water Content (inches) Last Yr.	Ave†
Albany	5/01	39	15.6	18.9	13.8
Boxelder	5/02	18	7.2	5.2	7.2
Brooklyn Lake	5/01	66	27.0	30.6	24.6
Buck Creek	5/02	23	8.2	7.1	11.3
Cameron Pass	4/28	68	31.0	32.4	32.1
Casper Mountain	4/30	43	16.4	14.6	19.4
Deadman Hill	- No Report	-	-	20.8	17.8
Evans	4/29	27	10.4	12.2	11.3
Foxpark	5/02	18	7.2	7.2	5.4
Hairpin Turn	5/01	46	19.0	23.2	17.8
Joe Wright	4/28	73	31.1	30.2	28.8
LaBonte	5/01	0	0.0	0.0	1.9
Libby Lodge	5/01	26	10.2	17.1	10.1
Lost Lake	4/28	36	14.1	13.3	9.6
McIntyre	4/27	34	13.4	14.4	10.7
Pole Mountain	5/01	24	8.4	5.1	3.5
Roach	4/27	65	25.2	26.8	19.5
Rock Creek	4/28	79	34.8	33.1	31.4

+ 1963-1977 period.

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FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE UPPER NORTH PLATTE AND LITTLE SNAKE RIVER BASINS IN WYOMING

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE
WATER RESOURCES DIVISION

MAY 1, 1980



YOUR WATER SUPPLY

SNOWPACKS ARE HOLDING AT 4 TO 10% ABOVE NORMAL. STREAM-FLOWS ARE ALL FORECAST IN THE 12 TO 30% ABOVE NORMAL RANGE. SEMINOE RESERVOIR STORAGE IS 6% ABOVE NORMAL.

UPPER NORTH PLATTE RIVER AND LITTLE SNAKE RIVER BASINS

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
North Platte River near Northgate	300	126	Apr-Sept	376	238
North Platte River near Sinclair	884	130	Apr-Sept	853	680
Encampment River near Encampment	185	122	Apr-Sept	209	152
Rock Creek near Arlington	65	112	Apr-Sept	63	58
Little Snake near Dixon	390	122	Apr-Sept	349	320
Little Snake near Slater, Colo.	190	123	Apr-Sept	186	154

** Measured flow for last year are U.S. Geological Survey provisional figures subject to revision.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Upper North Platte	15	96	110
Encampment	3	86	104
Brush Creek	3	116	109
N. Platte ab. Sinclair	19	94	106
N. Platte ab. Laramie R.	23	95	104
Little Snake River	2	90	107
N. Platte in Wyoming	29	94	107

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont. (In.)	Last Yr.	Ave. †
Albany	5/01	39	15.6	18.9	13.8
Battle Mountain	4/29	17	10.7	-	-
Brooklyn Lake	5/01	66	27.0	30.6	24.6
Butter Hill	4/29	36	13.4	-	-
Cameron Pass	4/28	68	31.0	32.4	32.1
Deep Creek	4/29	23	9.2	12.5	-
Deep Lake	4/28	106	42.3	49.0	46.1
Elkhorn	4/29	62	27.2	31.0	-
Elk River	4/29	40	18.6	22.0	16.1
Evans	4/29	27	10.4	12.2	11.3
Foxpark	5/02	18	7.2	7.2	5.4
Hairpin Turn	5/01	46	19.0	23.2	17.8
Haskins Creek	4/29	80	33.5	-	-
LaBonte	5/01	0	0.0	0.0	1.9
Libby Lodge	5/01	26	10.2	17.1	10.1
Moss Lake	4/28	60	24.3	27.5	28.3
North Barrett Creek	4/25	59	23.1	21.6	24.2
North French Cr. Pillow	4/25	-	34.9	28.5	27.5
Old Battle	4/29	91	40.7	44.2	39.4
Purgatory Gulch	4/29	33	12.2	15.8	11.3
Rock Creek	4/28	79	34.8	33.1	31.4
Ryan Park	4/25	24	9.2	7.6	9.7
Sandstone Ranger Station	4/29	26	11.9	14.9	-
Webber Spring	4/29	51	21.6	26.3	20.6
Whiskey Creek	4/29	76	33.2	37.9	-

+ 1963-1977 period

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Seminole	1017.3	408.2	384.1	383.8

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FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WIND RIVER BASIN AND SWEETWATER RIVER WATERSHED STREAMFLOW FORECASTS

STREAMFLOW FORECASTS		THIS YEAR		PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
Wind River near Dubois	95	86	Apr-Sept	85	110
Wind River at Riverton (1)	695	100	Apr-Sept	491	695
Wind River below Boysen (2)	1205	101	Apr-Sept	903	1193
Bull Lake Creek near Lenore (3)	202	107	Apr-Sept	145	189
Little Popo Agie near Lander	60	113	Apr-Sept	45	53

(1) Observed flow plus change in storage in Bull Lake and Pilot Butte Reservoirs and diversion to Wyoming Canal.
(2) Observed flow plus change in storage in Bull Lake, Pilot Butte and Bousev Reservoirs; plus diversion to

- (1) Observed flow plus change in storage in Bull Lake and Pilot Butte Reservoirs and diversion to Wyoming Canal.
 (2) Observed flow plus change in storage in Bull Lake, Pilot Butte and Boysen Reservoirs; plus diversion to Wyoming Canal.
 (3) Observed flow plus change in storage in Bull Lake
 ** Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Upper Wind River	8	80	63
Popo Agie	4	180	119
Wind above Boysen	15	107	81
Sweetwater River	3	127	106

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Bull Lake	151.8	81.1	106.6	79.8
Pilot Butte	31.6	27.2	25.7	26.7
Boysen	549.9	271.5	253.8	250.1

SNOW

DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	THIS YEAR		PAST REC.	
		Snow Depth (In.)	Water Cont. (In.)	Last Yr.	Ave. †
Big Warm Springs	4/29	8	2.5	3.4	6.7
Blue Ridge	4/28	46	19.0	9.4	15.2
Burroughs Creek	4/29	31	11.4	13.8	15.2
Castle Creek	4/29	0	0.0	2.8	-
Dinwoody	5/05	38	13.1	10.7	14.5
DuNoir	4/29	11	3.5	5.2	8.8
Geyser Creek	4/30	3	1.0	4.2	6.8
Grannier Meadows	4/28	50	18.8	13.9	16.9
Hobbs Park	5/05	56	19.8	11.6	18.7
Larsen Creek	5/05	29	11.3	10.8	12.9
Little Warm	4/30	43	15.7	16.2	19.3
Middle Fork	4/28	25	7.8	7.5	7.4
Owl Creek	5/05	0	0.0	7.8	7.8
Sawmill Glade	4/28	32	13.6	5.0	9.5
Sheridan Ranger Station	4/29	0	0.0	4.5	5.5
South Pass	4/28	51	19.8	14.6	17.1
St. Lawrence R.S.	5/05	22	7.4	6.8	9.2
T-Cross Ranch	4/29	0	0.0	3.3	5.3
Togwotee Pass	4/29	68	30.0	29.6	34.4
Townsend Creek	4/28	28	9.4	3.5	-

+ 1963-1977 period

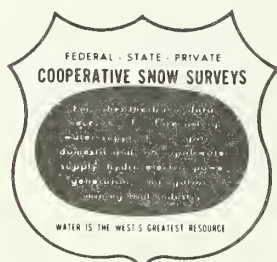
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FIRST CLASS MAIL



"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE UPPER GREEN RIVER BASIN IN WYOMING



YOUR WATER SUPPLY

SNOWPACKS HAVE RECEDED TO THE 70 TO 80% OF NORMAL LEVEL ON MAY 1. PROSPECTS FOR STREAMFLOWS REMAIN SIMILAR TO APRIL 1 FIGURES OF 85% OF NORMAL IN UPPER GREEN TO 111% OF NORMAL ON THE BIG SANDY RIVER. RESERVOIR STORAGE IS AVERAGE AT FONTENELLE.

UPPER GREEN RIVER BASIN IN WYOMING

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year**	Average †
Green River at Warren Bridge	285	85	Apr-Sept	237	336
Green River near LaBarge	850	85	Apr-Sept	677	999
Green River near Green River (1)	980	90	Apr-Sept	699	1094
Flaming Gorge Inflow	1450	112	Apr-July	-	1294
LaBarge Creek at LaBarge Meadows	8.5	97	Apr-Sept	6.8	8.8
Big Sandy River near Big Sandy	70	111	Apr-Sept	50	63

(1) Observed flow plus change in storage in Fontenelle Reservoir.

** Measured flows for last year are U.S. Geological Survey provisional figures subject to revision.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Upper Green, East	8	88	75
Upper Green, West	5	105	84
Big Sandy	2	85	72

SNOW

DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	THIS YEAR			PAST REC.	
		Snow Depth (In.)	Water Cont (In.)	Water Content (inches)	Last Yr.	Ave†
Big Sandy Opening	5/05	28	12.6	13.1	14.8	
East Rim Divide	4/28	27	11.0	11.5	11.8	
Elkhart Park G.S.	5/05	21	7.0	8.0	15.4	
Grannier Meadows	4/28	50	18.8	13.9	16.9	
Gros Ventre Summit	4/28	28	9.8	10.4	12.1	
Kendall Ranger Station	4/28	19	7.9	9.0	10.4	
Larsen Creek	5/05	29	11.3	10.8	12.9	
Loomis Park	4/28	38	15.7	16.8	17.3	
New Fork Lake	4/28	21	7.9	11.1	11.4	
Pocket Creek	5/05	24	8.1	11.3	14.1	
Poison Meadows	5/01	57	25.4	26.6	32.3	
Rowdy Creek	4/27	51	20.6	22.4	21.8	
Snider Basin R.S.	5/01	29	13.6	12.2	16.2	
South Pass	4/28	51	19.8	14.6	17.1	
Spring Creek Div. Pillow	5/01	-	21.6	20.1	-	
Triple Peaks	4/27	57	26.4	22.6	27.6	

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Eden	11.8	- No Report -	-	4.6
Big Sandy	38.3	24.6	30.6	24.4
Fontenelle	344.8	188.7	204.9	188.7*
Flaming Gorge	3749.0	2381.8	2475.0	-

*Less than 15 years

+ 1963-1977 period

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"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK FOR THE CONSERVATION DISTRICTS IN THE LOWER GREEN RIVER AND BEAR RIVER WATERSHEDS IN WYOMING

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE
WASHINGTON, D. C. 20250

MAY 1, 1980



YOUR WATER SUPPLY

SNOWMELT IS EARLY THIS YEAR IN MANY LOW AND MEDIAN ELEVATION SNOWPACKS. EARLY PEAK FLOWS CAN BE EXPECTED IN MOST STREAMS. VOLUME FORECASTS RANGE FROM NEAR NORMAL ON THE GREEN AT GREEN RIVER TO 33% ABOVE NORMAL ON THE BLACK'S FORK. VIVA NAUGHTON RESERVOIR IS STORING 12% ABOVE NORMAL.

LOWER GREEN RIVER AND BEAR RIVER WATERSHEDS

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year **	Average †
LaBarge Creek at LaBarge Meadows	8.5	97	Apr-Sept	6.8	8.8
Green River near Green River (1)	980	90	Apr-Sept	699	1094
Hams Fork below Pole Creek, near Frontier	75	104	Apr-Sept	55	72
Blacks Fork near Millburne	120	133	May-July	79	90
Flaming Gorge Inflow	1450	112	Apr-July	-	1292
Smiths Fork near Border	125	104	Apr-Sept	90	120
Thomas Fork near State Line	38	109	Apr-Sept	24	35
Bear River at Utah-Wyoming State Line	110	101	May-July	90	109
Henry's Fork near Linwood, Utah	45	105	May-July	-	43

(1) Observed flow plus change in storage in Fontenelle Reservoir.

** Measured flow for last year are U.S. Geological Survey provisional figures subject to revision.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average †
Upper Bear	7	114	95
Smiths & Thomas Forks	4	92	79

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST REC.	
	Date of Survey	Snow Depth (In.)	Water Cont (In.)	Water Content (inches)	
				Last Yr.	Ave†
Big Park	5/01	43	18.8	17.8	22.7
Black's Fork GS-East Fork	4/25	32	12.0	7.6	9.9
Black's Fork Junction	- No Report	-	-	5.3	8.7
Burts-Miller Ranch	4/25	5	1.5	0.0	3.0
CCC Camp	4/29	14	5.4	8.4	10.4
Hayden Fork	4/25	39	18.3	13.5	16.7
Hewinta Guard Station	4/25	31	11.9	9.0	10.4
Hickerson Park	4/25	32	11.0	7.0	5.9
Kelley Ranger Station	5/01	32	14.8	15.4	19.0
Poison Meadows	5/01	57	25.4	26.6	32.3
Salt River Summit	4/29	27	10.0	14.2	15.4
South Thomas Fork	5/01	30	11.8	12.6	13.0
Spirit Lake	4/25	50	20.7	15.3	15.5
Steel Creek Park	4/25	59	22.3	14.2	18.7
Stillwater Camp	4/25	29	11.4	6.1	10.2
Trial Lake	4/25	75	32.1	25.0	26.1

+ 1963-1977 period

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average †
Fontenelle	344.8	188.7	204.9	188.7*
Flaming Gorge	3749.0	2381.8	2475.0	-
Viva Naughton	42.4	30.8	29.5	27.4

*Less than 15 years

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FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

S N O W C O U R S E D A T A

MAY 1980

SNOW COURSE	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1963-77
AFTON RANGER STATION	4/29	0	0.0	0.0	0.0
ALBANY	5/01	39	15.6	18.9	13.8
ARIZONA		N/S		-	-
ASTER CREEK		N/S		-	-
BALD MOUNTAIN	5/02	42	15.5	22.3	31.1
BASE CAMP		N/S		-	-
BATTLE MOUNTAIN	4/29	17	10.7	-	-
BEARLODGE DIVIDE	5/01	0	0.0	0.0	1.1*
BEAR TRAP AERIAL	5/03	3	0.9	8.0	-
BIG GOOSE	5/02	15	4.0	6.9	11.0
BIG PARK	5/01	43	18.8	17.8	22.7
BIG SANDY OPENING	5/05	28	12.6	13.1	14.8
BIG SANDY OPENING PILLOW	5/05	-	11.0	13.0	-
BIG WARM SPRINGS	4/29	8	2.5	3.4	6.7
BLACKROCK		N/S		-	-
BLACK'S FORK GS-EAST FK	4/25	32	12.0	7.6	9.9
BLACK'S FORK JUNCTION		N/R		5.3	8.7
BLIND BULL SUMMIT AERIAL		N/S		-	-
BLUE RIDGE	4/28	46	19.0	9.4	15.2
BONE SPRING DIVIDE	5/02	40	13.3	16.4	24.1
BOXELDER	5/02	18	7.2	5.2	7.2#
BROOKLYN LAKE	5/01	66	27.0	30.6	24.6
BROOKLYN LAKE PILLOW		N/R		22.2	-
BRYAN FLAT	5/01	0	0.0	0.0	3.4
BUCK CREEK	5/02	23	8.2	7.1	11.3#
BURGESS RANGER STATION	5/02	12	3.4	7.3	11.2
BURROUGHS CREEK	4/29	31	11.4	13.8	15.2
BURROUGHS CREEK PILLOW	4/29	-	11.0	12.5	-
BURTS-MILLER RANCH	4/25	5	1.5	0.0	3.0
BUTTER HILL	4/29	36	13.4	-	-
CAMERON PASS	4/28	68	31.0	32.4	32.1
CANYON	5/01	0	0.0	12.7	16.9
CANYON PILLOW		N/R		-	-
CARTER MOUNTAIN	4/28	17	6.1	5.6	7.8
CASPER MOUNTAIN	4/30	43	16.4	14.6	19.4#
CASPER MOUNTAIN PILLOW	5/01	-	14.2	10.2	-
CASTLE CREEK	4/29	0	0.0	2.8	-
CCC CAMP	4/29	14	5.4	8.4	10.4
CHAMBERS LAKE	4/28	24	10.8	10.9	6.4
CLOUD'S PEAK AERIAL	5/03	33	10.8	9.9	-
COLUMBINE LODGE	4/28	50	23.6	23.8	20.7
COOKE STATION	5/03	34	14.4	23.2	22.7E
COTTONWOOD LAKE AERIAL		N/S		-	-
COULTER CREEK		N/S		-	-

SNOW COURSE	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1963-77
CREVICE MOUNTAIN		N/S		-	-
DARBY CANYON		N/S		26.0	25.5E
DEADMAN HILL		N/R		20.8	17.8
DEEP CREEK	4/29	23	9.2	12.5	-
DEEP LAKE	4/28	106	42.3	49.0	46.1*
DINWOODY	5/05	38	13.1	10.7	14.5
DINWOODY PILLOW		N/R		-	-
DOME LAKE	5/02	21	6.3	9.0	13.6
DU NOIR	4/29	11	3.5	5.2	8.8
EAST ENTRANCE	5/01	0	0.0	0.0	4.0*
EAST RIM DIVIDE	4/28	27	11.0	11.5	11.8
ELBO RANCH	5/01	13	4.4	-	-
ELKHART PARK G.S.	5/05	21	7.0	8.0	15.4
ELKHORN	4/29	62	27.2	31.0	-
ELK RIVER	4/29	40	18.6	22.0	16.1
EVANS	4/29	27	10.4	12.2	11.3
FISHER CREEK	5/02	73	33.0	40.7	45.1E
FIVE SPRINGS FALLS	4/30	2	0.5	2.9	8.3
FOUR MILE MEADOWS		N/S		-	-
FOXPARK	5/02	18	7.2	7.2	5.4
FRED'S MOUNTAIN	5/01	33	14.3	24.7	21.1E
GENEVA PASS AERIAL	5/02	36	10.8	13.3	-
GEYSER CREEK	4/30	3	1.0	4.2	6.8
GLADE CREEK	4/28	35	14.3	22.2	-
GRANNIER MEADOWS	4/28	50	18.8	13.9	16.9
GRASSY LAKE	4/28	53	23.5	39.6	36.4
GREYS BOUNDARY	4/30	0	0.0	0.0	4.3*
GRGS VENTRE SUMMIT	4/28	28	9.8	10.4	12.1
GRGS VENTRE SUMMIT PILLO	4/28	-	10.7	11.1	-
GROVER PARK DIVIDE	4/30	9	4.0	7.0	11.2
HAIRPIN TURN	5/01	46	19.0	23.2	17.8
HASKINS CREEK	4/29	80	33.5	-	-
HAYDEN FORK	4/25	39	18.3	13.5	16.7
HEWINTA GUARD STATION	4/25	31	11.9	9.0	10.4
HICKERSON PARK	4/25	32	11.0	7.0	5.9*
HOBBS PARK	5/05	56	19.8	11.6	18.7
HOBBS PARK PILLOW		N/R		-	-
HUCKLEBERRY DIVIDE		N/S		-	-
INDIAN MEADOWS	5/03	55	25.5	35.8	39.9E
JACKPINE CREEK	5/03	43	9.9	21.8	24.1E
JOE WRIGHT	4/28	73	31.1	30.2	28.8*
KELLY RANGER STATION	5/01	32	14.8	15.4	19.0
KELLY RANGER STA PILLOW	5/01	-	12.5	14.6	-
KENDALL RANGER STATION	4/28	19	7.9	9.0	10.4
LA BONTE	5/01	0	0.0	0.0	1.9#
LAKE CAMP	5/01	0	0.0	7.4	8.8
LA FRELE PILLOW	5/05	-	2.2	-	-
LARSEN CREEK	5/05	29	11.3	10.8	12.9
LEWIS LAKE DIVIDE	4/28	81	35.3	41.7	44.7
LEWIS LAKE DIVIDE PILLOW	4/28	-	27.6	30.2	-

SNOW COURSE	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1963-77
LIBBY LODGE	5/01	26	10.2	17.1	10.1
LITTLE WARM	4/30	43	15.7	16.2	19.3
LITTLE WARM PILLOW		N/R		7.1	-
LOOMIS PARK	4/28	38	15.7	16.8	17.3
LOST LAKE	4/28	36	14.1	13.3	9.6
LUPINE CREEK	4/30	11	3.6	7.2	8.9
MALLO PILLOW		N/S		0.0	-
MARQUETTE CREEK	4/28	22	9.2	5.8	-
MCINTYRE	4/27	34	13.4	14.4	10.7
MEDICINE LODGE LAKES	5/03	19	6.3	13.3	13.9
MIDDLE FORK	4/28	25	7.8	7.5	7.4*
MIDDLE POWDER	4/29	23	7.2	8.2	16.8*
MIDDLE POWDER PILLOW		N/R		10.6	-
MILES CREEK		N/S		10.4	11.4E
MONTE CRISTO	4/28	53	25.7	24.7	27.6
MORAN		N/S		-	-
MORAN BAY		N/S		-	-
MOSS LAKE	4/28	60	24.3	27.5	28.3*
MOUNT TOM PILLOW		N/S		-	-
MUDDY CREEK GUARD STATIO	5/03	0	0.0	5.6	4.6
NEW FORK LAKE	4/28	21	7.9	11.1	11.4
NORRIS BASIN	4/30	-	1.5E	7.9	8.6*
NORTH BARRETT CREEK	4/25	59	23.1	21.6	24.2
NORTHEAST ENTRANCE	5/03	1	0.5	8.0	8.5
NORTH FRENCH CREEK PILLO	4/25	-	34.9	28.5	27.5
NORTHGATE	4/29	21	7.3	4.4	4.1
NORTH TONGUE	5/02	24	7.5	12.7	16.6
OLD BATTLE	4/29	91	40.7	44.2	39.4
OLD BATTLE PILLOW	4/29	-	43.9	48.7	-
OLD FAITHFUL		N/R		10.9	-
ONION GULCH	5/03	5	1.5	7.3	11.0
OWL CREEK	5/05	0	0.0	7.8	7.8
PARKER'S PEAK AERIAL		N/S		-	-
PARK VIEW	4/29	23	7.6	12.2	6.8
PHILLIPS BENCH	5/01	56	23.7	33.2	31.5*
PHILLIPS BENCH PILLOW		N/R		29.4	-
PITCHSTONE PLATEAU AERIA		N/S		-	-
POCKET CREEK	5/05	24	8.1	11.3	14.1
POISON MEADOWS	5/01	57	25.4	26.6	32.3
POLE MOUNTAIN	5/01	24	8.4	5.1	3.5
POWDER RIVER PASS	5/03	15	4.9	11.4	14.4*
PURGATORY GULCH	4/29	33	12.2	15.8	11.3*
RABBIT EARS	4/28	64	29.6	30.7	27.1
RANGER CREEK	5/03	0	0.0	7.2	10.5
REUTER CANYON	5/02	0	0.0	0.0	6.9*
ROACH	4/27	65	25.2	26.8	19.5
ROCK CREEK	4/28	79	34.8	33.1	31.4
ROWDY CREEK	4/27	51	20.6	22.4	21.8
RYAN PARK	4/25	24	9.2	7.6	9.7
SALT RIVER SUMMIT	4/29	27	10.0	14.2	15.4

SNOW COURSE	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1963-77
SALT RIVER SUMMIT PILLOW	4/29	-	9.6	-	-
SANDSTONE RANGER STATION	4/29	26	11.9	14.9	-
SAWMILL DIVIDE	5/02	34	9.6	13.2	-
SAWMILL GLADE	4/28	32	13.6	5.0	9.5
SHELL CREEK	5/02	33	10.0	16.0	18.2
SHERIDAN RANGER STATION	4/29	0	0.0	4.5	5.5
SNAKE RIVER STATION		N/S		-	-
SNIDER BASIN RANGER STA	5/01	29	13.6	12.2	16.2
SNOW KING MOUNTAIN	5/01	10	4.4	13.2	14.8*
SOLDIER PARK	5/03	18	5.7	6.6	8.2*
SOUR DOUGH	5/03	13	3.9	7.0	8.2*
SOUTH BRUSH CREEK PILLOW	4/25	-	13.5	12.2	-
SOUTH PASS	4/28	51	19.8	14.6	17.1
SOUTH THOMAS FORK	5/01	30	11.8	12.6	13.0*
SPIRIT LAKE	4/25	50	20.7	15.3	15.5
SPRING CREEK DIVIDE FILL	5/01	-	21.6	20.1	-
STATE LINE	5/01	0	0.0	15.2	10.7
STEAMBOAT POINT	5/02	17	5.5	8.2	12.9
STEEL CREEK PARK	4/25	59	22.3	14.2	18.7
STILLWATER CAMP	4/25	29	11.4	6.1	10.2*
ST. LAWRENCE RANGER STA	5/05	22	7.4	6.8	9.2
ST. LAWRENCE R.S. PILLOW	5/05	-	8.1	6.4	-
SUCKER CREEK	5/02	22	6.5	9.1	17.8
SWEETWATER MOUNTAIN FILL		N/S		0.0	-
SYLVAN PASS	5/01	5	2.2	5.4	11.0
T-CROSS RANCH	4/29	0	0.0	3.3	5.3
TETON PASS W.S.	5/01	42	17.4	31.7	28.9*
THUMB DIVIDE		N/S		-	-
TIMBER CREEK	4/29	0	0.0	4.9	5.0
TOGWOTEE PASS	4/29	68	30.0	29.6	34.4
TOGWOTEE PASS PILLOW	4/29	-	23.0	24.7	-
TOWNSEND CREEK	4/28	28	9.4	3.5	-
TRIAL LAKE	4/25	75	32.1	25.0	26.1
TRIPLE PEAKS	4/27	57	26.4	22.6	27.6
TURPIN MEADOWS		N/S		-	-
TWENTY-ONE MILE	4/29	17	5.6	16.8	18.6
TWO OCEAN PLATEAU AERIAL		N/S		-	-
TYRELL RANGER STATION	5/03	0	0.0	6.9	10.2
UPPER SPEARFISH		N/S		-	-
WARREN PEAK	5/01	5	1.2	0.0	8.8*
WEBBER SPRING	4/29	51	21.6	26.3	20.6
WEBBER SPRING PILLOW	4/29	-	28.4	37.8	-
WEST YELLOWSTONE	4/29	7	2.4	10.1	9.1
WHISKEY CREEK	4/29	76	33.2	37.9	-
WHITE MILL	5/02	53	23.0	30.7	31.9E
WILLOW CREEK PASS	4/29	38	13.7	18.0	10.8
WOLVERINE	4/29	17	6.8	14.8	12.3*
WOOD ROCK GUARD STATION	5/02	24	8.0	10.1	14.7
YOUNG'S RANCH AERIAL		N/S		-	-
YOUNTS PEAK AERIAL		N/S		-	-

N/S Not scheduled

N/R No report

* Less than 15 years

Average excludes 1973

E Estimated

BASIC DATA SUPPLEMENT 2

PRECIPITATION (Inches) FOR MONTH OF APRIL

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION		PAST RECORD	
		Date of Reading	Precipitation	Last Year	Average ⁺
Arrastre Lake	10280	- No Report -	-	-	-
Bald Mountain	9380	5/02	3.00	3.40	-
Battle Mountain	7440	4/29	5.38	-	-
Bearlodge Divide (Alva)(NWS)	4390	- No Report -	-	1.49	3.72
Big Sandy Opening	9080	5/05	1.50	1.75	2.41
Blind Bull Summit	8650	- No Report -	-	1.80	-
Bone Springs Divide	9350	- No Report -	-	2.80	-
Brooklyn Lake	10220	5/01	5.69	5.62	2.42
Burgess R.S.	7880	- No Report -	-	1.98	-
Burroughs Creek	8750	4/29	2.00	1.75	-
Canyon	7940	- No Report -	-	-	-
Carter Mountain	7950	4/28	3.86	2.00	2.29*
Casper Mountain	7850	4/30	2.43	2.69	4.16*
Dinwoody	10160	5/05	4.50	-	-
Dome Lake	8870	5/02	3.00	2.50	-
East Rim Divide	7930	- No Report -	-	0.44	2.08
Elkhart Park G.S.	9400	5/05	3.50	1.25	2.43*
Grassy Lake	7265	4/28	3.90	3.80	4.29
Gros Ventre Summit	8750	4/28	2.12	1.50	-
Grover Park Divide	7000	4/30	1.85	2.55	2.50*
Haskins Creek	8975	- No Report -	-	-	-
Hobbs Park	10100	5/05	4.00	3.50	-
Kelley Ranger Station	8180	5/01	2.75	2.00	2.31*
Lewis Lake Divide	7850	4/28	4.00	3.80	3.38*
Little Warm	9620	4/30	3.00	1.50	-
Loomis Park	8240	4/27	2.50	1.37	-
Louis Lake	8500	4/28	4.75	1.80	2.34*
Middle Powder	7760	4/29	0.50	2.00	-
Moran (NWS)	6500	4/30	0.82	0.69	1.81
North French Creek	10125	4/25	3.13	4.20	3.52*
Old Battle	9920	- No Report -	-	3.50	3.43*
Onion Gulch	8780	- No Report -	-	-	2.97*
Owl Creek	8975	5/05	2.50	2.00	-
Phillips Bench	8200	5/01	4.00	3.25	-
Pole Mountain	8360	5/01	2.10	1.10	1.83*
Powder River Pass	9480	5/03	2.25	3.25	2.93
Rock Creek	9980	- No Report -	-	4.75	1.90*
Salt River Summit	7700	4/29	2.37	2.43	1.52
Sandstone R.S.	8150	- No Report -	-	4.50	-
Shell Creek	9580	5/02	2.00	2.90	-
Snake River Station (NWS)	6920	4/30	1.21	1.93	2.32
Snider Basin	8060	5/01	4.25	1.00	1.91
South Brush Creek	8440	4/25	2.25	3.00	-
Spring Creek Divide	9000	5/01	3.50	1.75	-
St. Lawrence R.S.	8960	5/05	4.00	0.90	-
Sucker Creek	8880	5/02	2.88	2.90	-
Sweetwater Mountain	5860	5/01	3.18	1.75	-
Sylvan Lake	7100	- No Report -	-	-	-
Timber Creek	7950	4/29	0.75	1.50	3.30*
Togwotee Pass	9580	4/29	2.90	3.10	3.52
Townsend Creek	8700	- No Report -	-	3.00	-
Warren Peak	6520	5/01	2.44	-	2.34*
Webber Spring	9250	4/29	1.37	3.10	-
Wolverine	7650	4/29	1.00	2.75	-

* Less than 15 years
(NWS) National Weather Service gage

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